



A.D. 1869, 18th MARCH. N° 830.

S P E C I F I C A T I O N

OF

JOHN PARTINGTON, JUNIOR.

SMOKE-CONSUMING APPARATUS.

LONDON:

PRINTED BY GEORGE E. EYRE AND WILLIAM SPOTTISWOODE,

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25, SOUTHAMPTON BUILDINGS, HOLBORN.

1869



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Smoke-consuming Apparatus.

(This Invention received Provisional Protection only.)

PROVISIONAL SPECIFICATION left by John Partington at the Office of the Commissioners of Patents, with his Petition, on the 18th March 1869.

I, JOHN PARTINGTON, junior, of Oldham, County of Lancaster, Bobbin
5 Manufacturer, do hereby declare the nature of the said Invention for
“AN IMPROVED SMOKE-CONSUMING APPARATUS,” to be as follows:—

The object of my Invention is to effect the more perfect consumption of the smoke and gases generated in the furnaces of steam boilers. I accomplish this as follows:—I make or leave apparatus or openings
10 at the lower part of the front of the bridge wall. From these openings holes or passages lead to the top of the bridge through the bridge wall; or I may form passages leading direct from the front part of the wall below the fire-bars to the top of the bridge. Cold air enters the appertures or openings at the lower part of the bridge wall, and is caused to pass
15 through the passages leading out at the top of the bridge by the draught of the chimney or other well-known means. The bridge wall being heated by the furnace communicates a portion of its heat to the air on its way through these passages; this air then comes out at the top of the bridge in a heated state, and mingles with the unconsumed gases

Partington's Improved Smoke-consuming Apparatus.

and other products of combustion that pass over the bridge on their way to the chimney, and thus facilitates their combustion. The requisite amount of air may be regulated by using doors or slides, by means of which the appertures or openings may be more or less closed, so that more or less air may be permitted to pass.

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